



# Pure International Conference 2020

VIRTUAL

27–29 October  
Americas/Europe/Africa

3–5 November  
Asia/Oceania

#prcn2020  
Research Intelligence

## Supporting Open Science implementation from an institutional CRIS platform

**Pablo de Castro**

euroCRIS Secretary

Open Access Advocacy Librarian  
University of Strathclyde

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<http://orcid.org/0000-0001-6300-1033>

# Speaker's academic affiliation

## University of Strathclyde Glasgow



- Founded 1796 as “the place for useful learning”
- 22,295 FTE Students and 3,200 staff (2017/18)
- Research: research grants and contracts income of £65.6m in 2017\*
- Among the 20 top research-intensive universities in the UK

The screenshot shows the CWTS Leiden Ranking website. The navigation bar includes links for Home, Ranking, Information, Downloads, Products, and Contact. The main content area displays a table of university rankings. A tooltip is visible over the 'Proportion of OA publications' column, explaining that it represents the proportion of open access publications of a university. The table lists several universities, with the University of Strathclyde highlighted in a red box at rank 4.

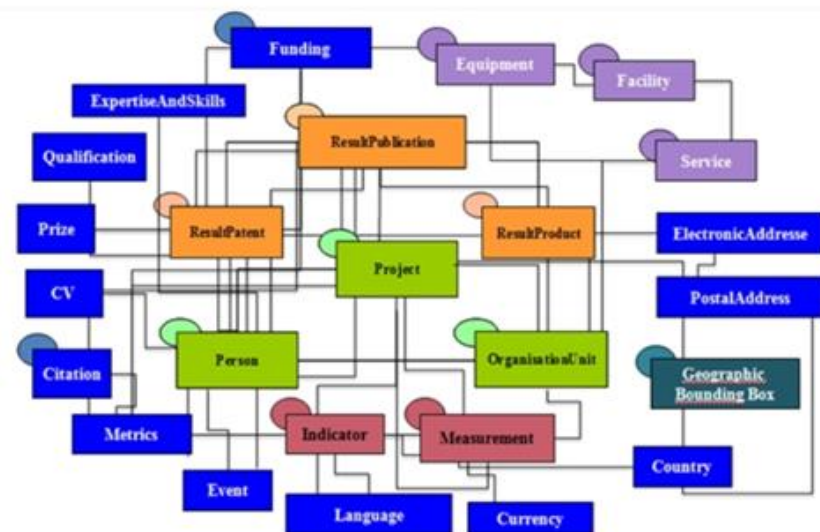
	University		F	F(OA)	FF(OA)			
1	Bilkent Univ		1971	1862	94.5%			
2	Univ Portsmouth		2625	2442	93.0%			
3	London Sch Hyg & Trop Med		7926	7185	90.7%			
4	Univ Strathclyde		5468	4879	89.2%			
32	Univ Sheffield		13345	10893	81.6%			
38	Univ Politècnica Catalunya - BarcelonaTech		6537	5275	80.7%			

\* 14.5% increase from previous year and an overall increase of over 60% over a six year period

# Speaker's academic affiliation

## Secretary for the euroCRIS Association

- Dutch non-profit founded 2002
- Association of professionals and bodies worldwide in the areas of research information management and CRIS systems
- Custodian for the Common European Research Information Format (CERIF)
- MoUs with various relevant organisations in the RIM field: OpenAIRE, ORCID, COAR...



euroCRIS  
Current Research Information Systems

The International Organisation for Research Information

EuroCRIS / DRIS

Browse

Search the Directory of Research Information System (DRIS)

Name: All  
Country: All

AND

Results 1-10 of 762 (Search time: 0.0 seconds).  
Results/Page: 10 | Sorted by Relevance

previous 1 2 3 4 ... 77 next

DRIS Entries

Acronym	Name	Scope	Organisation
ETIS	Estonian National Research Information System	National	Estonian Research Council
NARCIS		National	Digital Archiving and Networked

Country

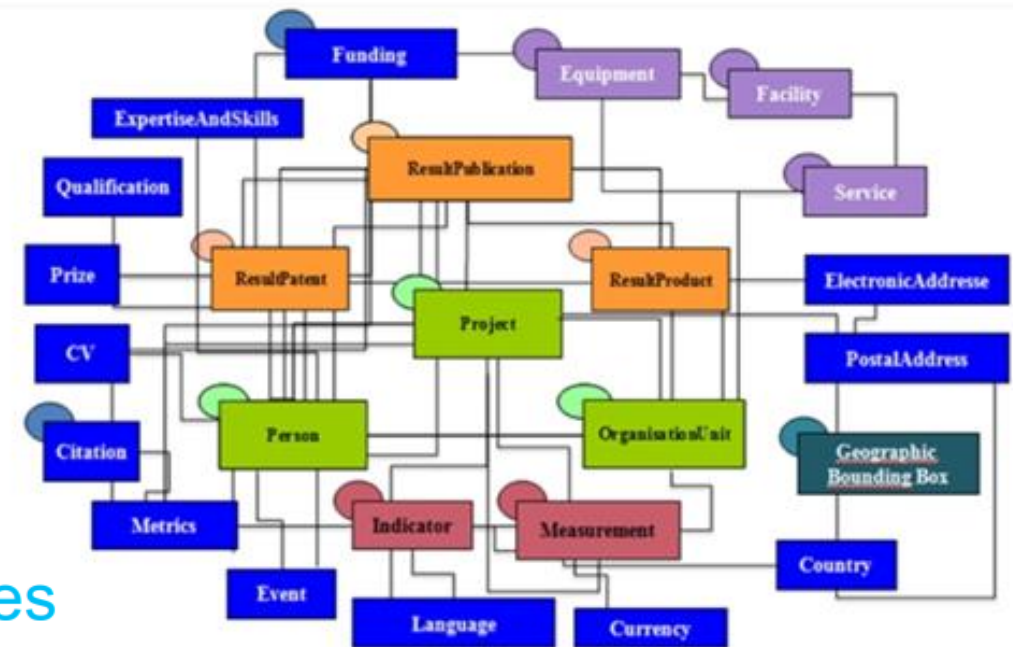
India	207
Norway	132
Italy	76
United Kingdom	68
United States	42

# The Common Research Information Format (CERIF)

## Main features of CERIF

CERIF (the Common European Research Information Format) is:

- A concept about research entities and their relationships – Specification (Conceptual Level)
- A description of research entities and their relationships – Model (Logical Level)
- A formalization of research entities and their relationships – Database Scripts (Physical Level)



## Developing specification: mapping content types

OpenAire CERF-XML	Pure 5.11 - suggested content types
Publications	Research Output
Products	Dataset
Patent	Template within Research Output
Person	Person, External person
OrgUnit	Organisational unit, External organisation, Publisher
Project	Project
Funding	Award
Service	??
Equipment	Equipment/facility
Event	Event

A Clements, J Dvořák "An update on Pure's progress towards OpenAIRE compatibility". euroCRIS Strategic Membership Meeting Autumn 2018 (Warsaw University of Technology, Warsaw, Poland, Nov 26-28, 2018), <http://hdl.handle.net/11366/718>

# euroCRIS Directory of Research Information Systems (DRIS)

euroCRIS

Current Research Information Systems

The International Organisation for Research Information

CERIF

EuroCRIS / DRIS

Browse

Name

All

Country

All

AND

Search the Directory of Research Information System (DRIS)

Results 1-10 of 762 (Search time: 0.0 seconds).  
Results/Page 10 | Sorted by Relevance

previous1234...77next

DRIS Entries

Acronym	Name	Scope	Organisation
ETIS	Estonian National Research Information System	National	Estonian Research Council
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Country

India207

Norway132

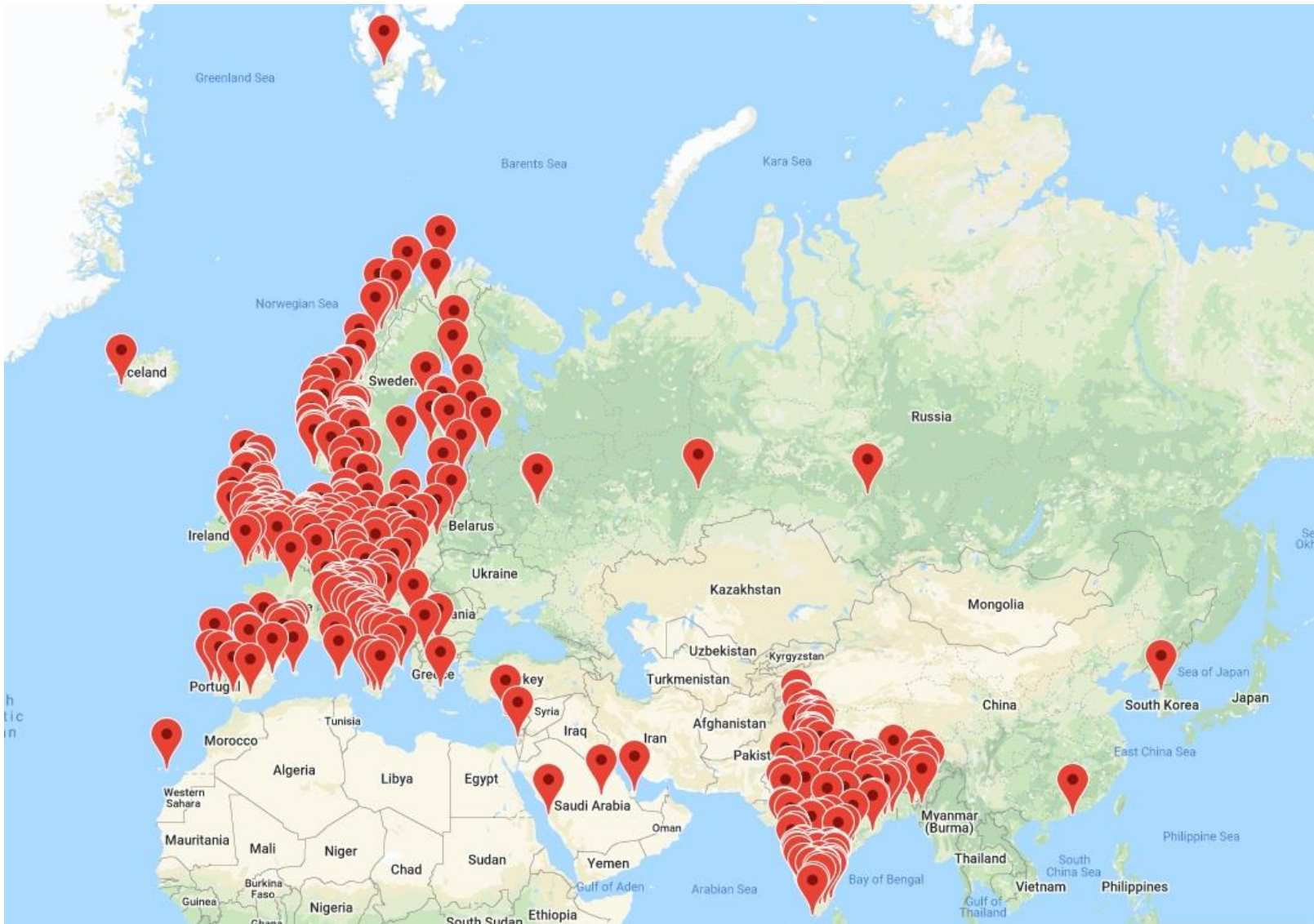
Italy76

United Kingdom68

United States42



# euroCRIS Directory of Research Information Systems (DRIS)



Software	
Pure	100
IRINS	93
IRIS	70
In-house-built	44
Omega-PSIR	20
Symplectic Elements	19
DSpace-CRIS	14
Converis	11
SoleCRIS	5
Worktribe	5
<a href="#">next &gt;</a>	

<https://dspacecris.eurocris.org/cris/explore/dris>

# The Role of Current Research Information Systems (CRIS) in Supporting Open Science Implementation: the Case of Strathclyde

Pablo de Castro



## Abstract

*CRIS systems are playing an increasingly relevant role in the implementation of Open Access and Research Data Management (RDM) policies at research-performing organisations. This is not just because of the deep insight these systems provide into the workflows that underpin the institutional research activity, but also because they allow an effective teamworking across institutional research support units, which critically include research libraries.*

*This article describes the way the institutional Pure CRIS is used at the University of Strathclyde in Glasgow to support the implementation of Open Science in collaboration with the researchers themselves and with the institutional Research Office. In terms of training, which is in itself an important and often challenging part of the effort towards Open Science implementation, the key objective is to make researchers aware that all the seemingly independent processes they're being asked to carry out on top of their research activity are interconnected and are part of the same drive towards openness and digital science.*

*Finally, the paper describes the international collaboration networks for the realisation of Open Science that the University of Strathclyde is involved in and some of the areas where this cross-institutional collaboration is taking place.*

## Keywords

*Open Science; Research Information Management; Open Access; Research Data Management; Scholarly Communications; Current Research Information Systems (CRIS); Institutional case studies*



Page view(s)

1,063

5

Last Week  
4

Last month  
104

checked on Oct 14, 2020



Download(s)

170

50

checked on Oct 14, 2020

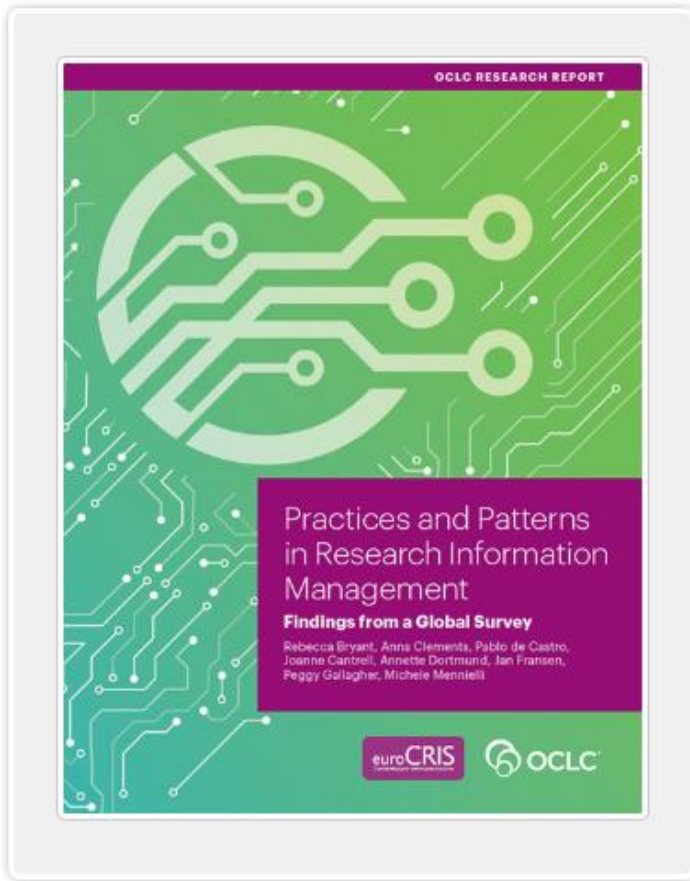


Altmetric

22



# OCLC/euroCRIS RIM survey report (2018/9)



## Practices and Patterns in Research Information Management: Findings from a Global Survey

**Rebecca Bryant**  
OCLC Research

**Anna Clements**  
University of St Andrews and euroCRIS

**Pablo de Castro**  
University of Strathclyde and euroCRIS

**Joanne Cantrell**  
OCLC

**Annette Dortmund**  
OCLC

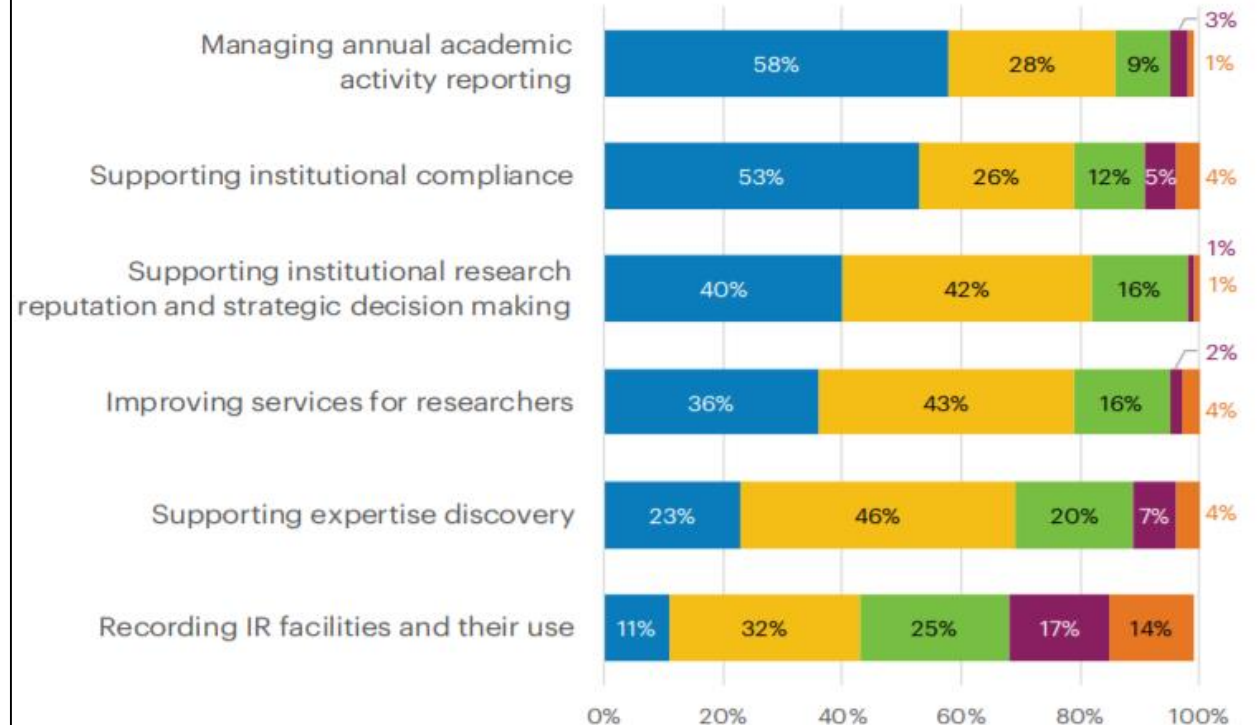
**Jan Fransen**  
University of Minnesota, Twin Cities

**Peggy Gallagher**  
OCLC

**Michele Mennielli**  
DuraSpace and euroCRIS

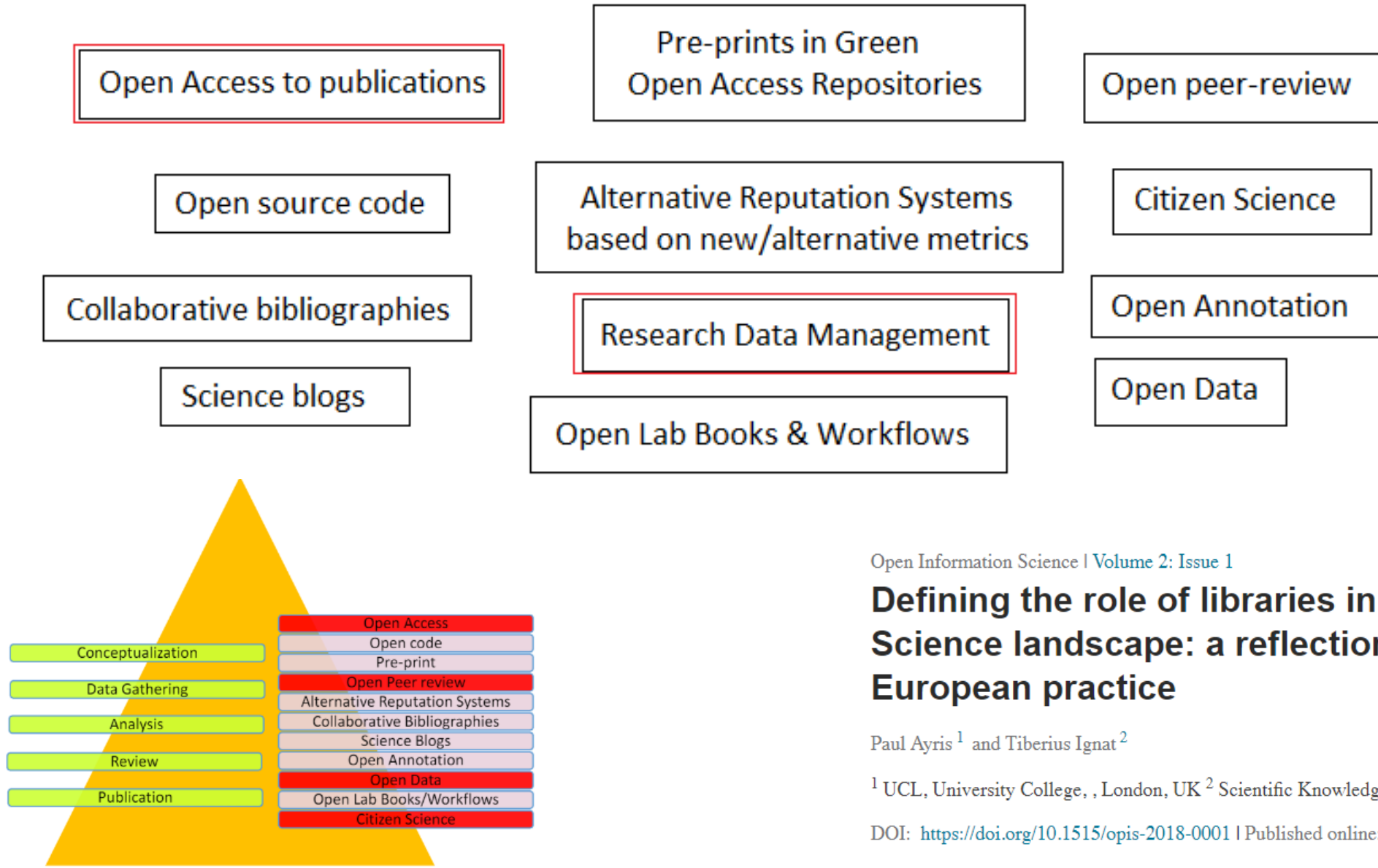
### Importance of Reasons for Pursuing RIM Activities (n=222)

■ Extremely important   ■ Important   ■ Somewhat important  
■ Not important   ■ N/A or Not sure





# Open Science elements: scope



Open Information Science | Volume 2: Issue 1

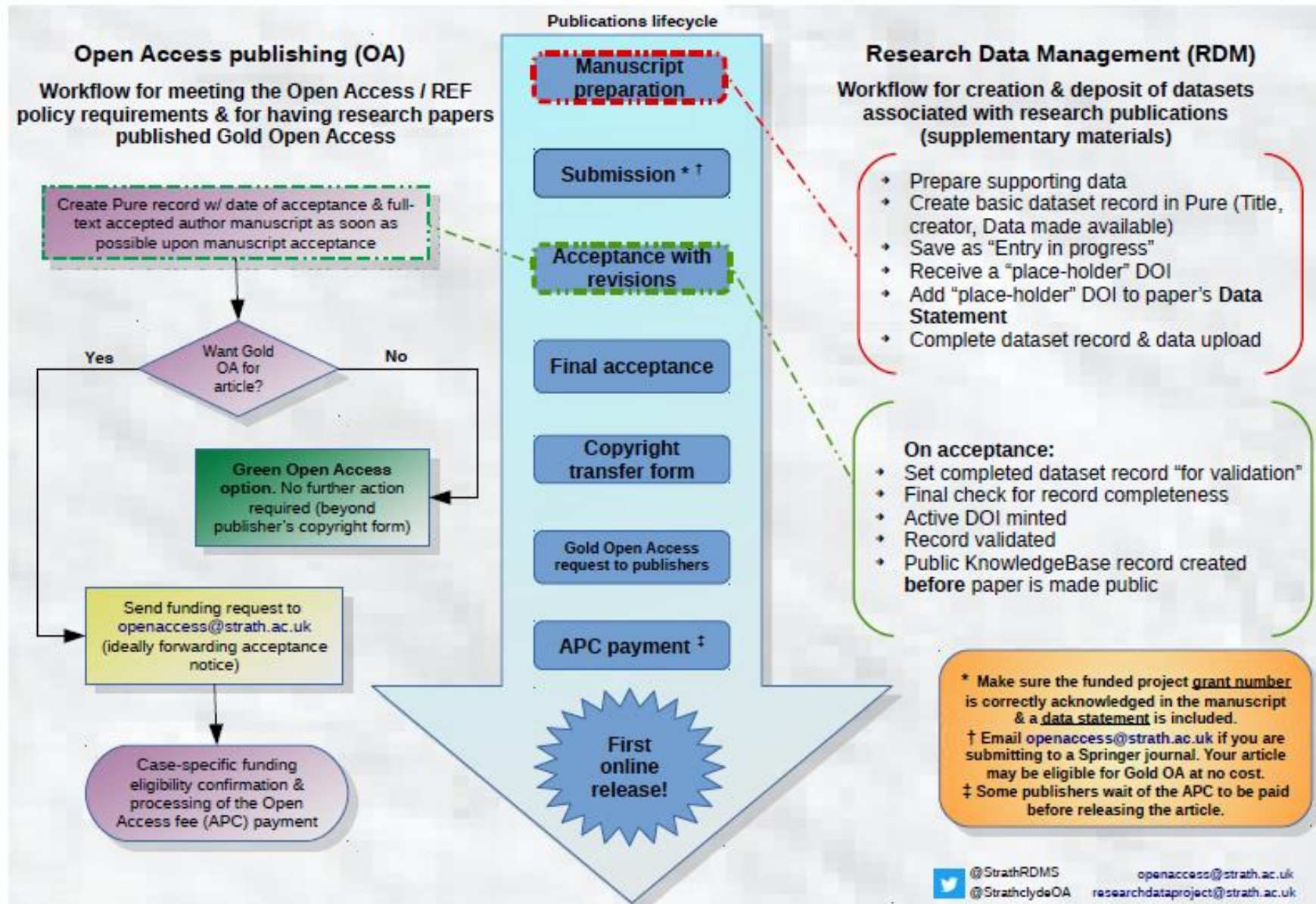
## Defining the role of libraries in the Open Science landscape: a reflection on current European practice

Paul Ayris<sup>1</sup> and Tiberius Ignat<sup>2</sup>

<sup>1</sup> UCL, University College, , London, UK <sup>2</sup> Scientific Knowledge Services, , Lausanne, Switzerland

DOI: <https://doi.org/10.1515/opis-2018-0001> | Published online: 02 Mar 2018

# Integrated Open Access / Research Data Management workflow



# UK Open Access policies (U Strathclyde)

Research funder	OA flavour	Brief policy description
Higher Education Funding Council for England (HEFCE)	Green	In operation since 01/04/2016 (implemented since 2014 at Strathclyde). Mandatory deposit of full-text accepted author manuscript no longer than three months since manuscript acceptance. Linked to the UK Research Excellence Framework (REF2021)
Research Councils UK (UK Research and Innovation since 01/04/2018)	Green & Gold	Mandatory OA availability of funded outputs via either the Green or the Gold OA routes. Block grants delivered to research-intensive HEIs to fund Open Access fees for eligible publications (those that acknowledge RCUK-funded projects)
Charity Open Access Fund (COAF): coalition of UK charities led by the Wellcome Trust	Green & Gold	Mandatory OA availability of funded outputs via either the Green or the Gold OA routes. Block grants delivered to research-intensive HEIs to fund Open Access fees for eligible publications (those that acknowledge RCUK-funded projects). Green OA publications need to be deposited in EuropePMC
European Commission – FP7 programme	Green & Gold	Mandatory deposit of full-text accepted author manuscript for projects under Clause 39. Gold Open Access funding available for finished FP7 projects under the OpenAIRE FP7 Post-Grant OA Pilot
European Commission – H2020 programme	Green & Gold	Mandatory deposit of full-text accepted author manuscript for all H2020 projects (plus associated datasets). Gold Open Access funding may be claimed from project grant

**Table 1.**— Main Open Access policies by research funders at the University of Strathclyde

- Mandatory deposit of the Accepted Author Manuscript (AAM) or *post-print*
- Green and Gold OA routes suitable for compliance with OA policies
- Funding available from specific research funders to pay for Article Processing Charges
- Increasing number of Read & Publish agreements with publishers

# Research Information Management System: PURE

Research output > Contribution to journal > Article - Pure 5.13.1-1 - Google Chrome

https://pure.strath.ac.uk/admin/editor/dk/atira/pure/api/shared/model/researchoutput/editor/contributiontojournaleditor.xhtml?id=80313386

Id: 80313386

**Potential impact of introducing the pneumococcal conjugate vaccine into national**

Research output: Contribution to journal > Article

Change template

**EDIT**

**Metadata**

Metrics

**OVERVIEW**

Relations

Fingerprints

Display

**HISTORY AND COMMENTS**

History and comments

**NOTIFICATIONS**

Editors responsible for handling this submission: pablo.de-castro@strath.ac.uk, sarah.scott@strath.ac.uk, l.gilkison@strath.ac.uk, judith.smart@strath.ac.uk, helen.cooper@strath.ac.uk, and 9 others

Peer-reviewed \*

☒ Peer-reviewed ☐ Not peer-reviewed

**Publication status**

Publication statuses and dates \*

Accepted/In press 6 Apr 2018 Edit —

E-pub ahead of print 9 May 2018 **Current** Edit —

Add publication status and date...

**Publication information**

Original language \*

English

Title of the contribution in original language \*

Potential impact of introducing the pneumococcal conjugate vaccine into national immunization programmes

Subtitle of the contribution in original language

an economic-epidemiological analysis using data from India

**Abstract**

Pneumococcal pneumonia causes an estimated 105,000 child deaths in India annually. The planned introduction of the serotype-based pneumococcal conjugate vaccine (PCV) is expected to avert child deaths, but the high cost of PCV relative to current vaccines provided under the Universal Immunization Programme has been a concern. Cost-effectiveness studies from high-income countries are not readily comparable because of differences in the distribution of prevalent serotypes, population, and health systems. We used IndiaSim, an agent-based simulation model representative of the Indian population and health system, to model the dynamics of Streptococcus pneumoniae. We estimate that

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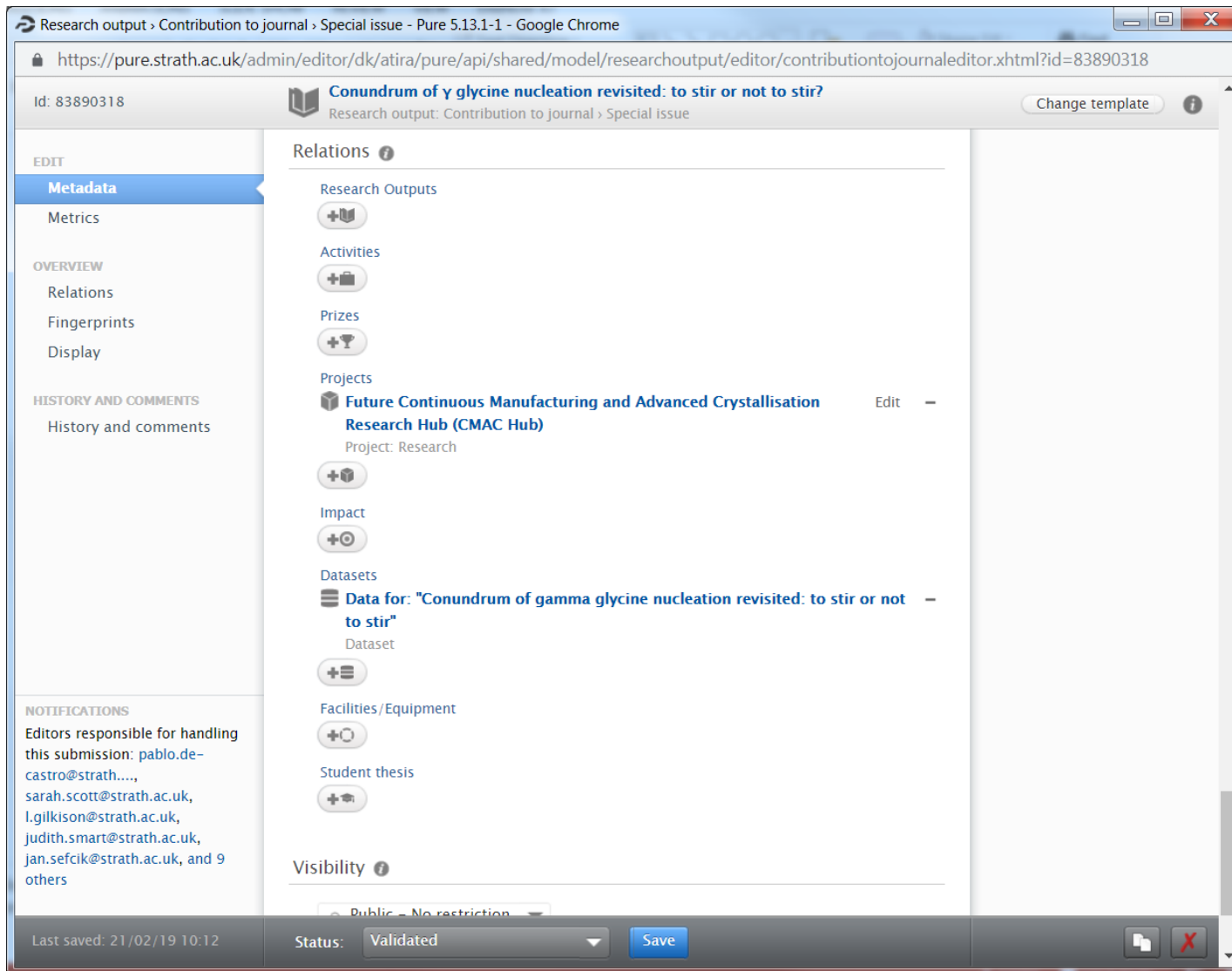
Status: Validated

Save

- Metadata for a journal article is kept in the institutional Research Information Management System (CRIS) for reporting purposes – including **plenty of contextual information** not usually available
- Basic publication records are usually created by researchers upon manuscript acceptance then completed and validated by the research support team at the library



# Research Information Management System: PURE



- This may include information on affiliations, funded projects, associated datasets and research facilities
- Reporting by affiliations allows an analysis of collaborations (also with Industry), reporting by research equipment or facility provides valuable evidence for research funders and the institution on the (internal and external) use of usually very expensive equipment



FloWave Ocean Energy Research Facility

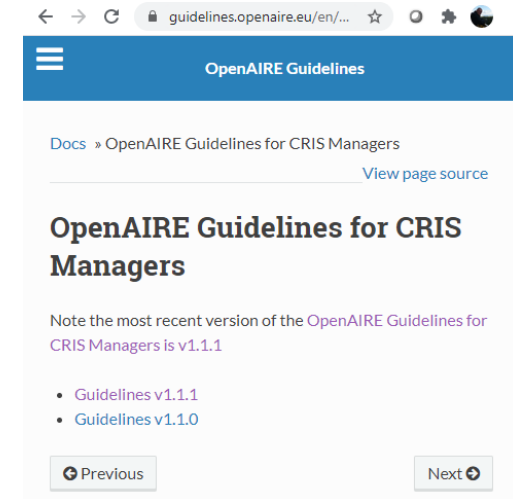
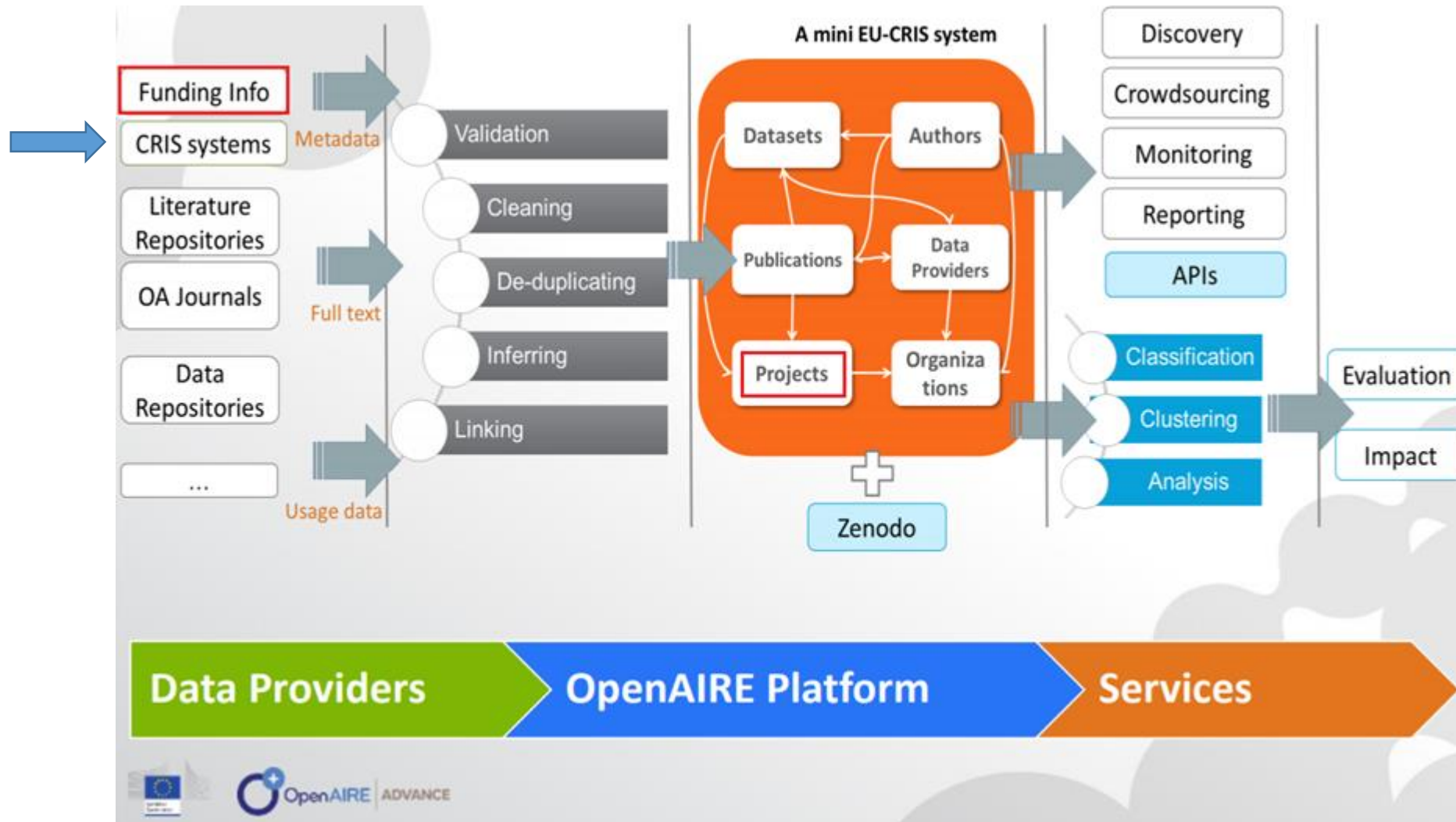
The £9.5m FloWave Ocean Energy Research Facility was funded by the Engineering and Physical Sciences Research Council (EPSRC) and Edinburgh University, and is managed by University subsidiary company FloWave TT Ltd.

# [Institutional] System Interoperability

## PURE - A Research Management System



# [External] System Interoperability



# PURE complies with OpenAIRE CERIF-XML Guidelines



## OpenAIRE Short Life Working Group



Slide: Anna Clements

**Aim : Provide mapping of Pure data model to OpenAire CERIF-XML guidelines and for CRIS Managers**

Elsevier have committed to implementing these guidelines in PURE for the October 2018 (v 5.13). To meet this deadline, Elsevier have asked for input from euroCRIS and Pure Customers to help develop the specification mapping the data held in Pure to the new OpenAire CERIF-XML guidelines. A short life working group (SLWG) will be setup to deliver this specification.

### SLWG Members

- Anna Clements (St Andrews, Chair)
  - Federica Fina (St Andrews)
  - Patricia Herterich (Birmingham)
  - Kara Jones (Bath)
  - Nykhola Strong (Aberdeen)
  - Anne Thorst Melbye (South Denmark)
  - Bill Worthington (Hertfordshire)
- Jan Dvorak (euroCRIS & Czech Technical University)
  - Alex Kujath (Elsevier)

A Clements, J Dvořák "An update on Pure's progress towards OpenAIRE compatibility". euroCRIS Strategic Membership Meeting Autumn 2018 (Warsaw University of Technology, Warsaw, Poland, Nov 26-28, 2018), <http://hdl.handle.net/11366/718>



# Data Sources kindly contributing to OpenAIRE's CRIS integration

- CRIS UNS (Current Research Inform. Syst. Univ. of Novi Sad) (Serbia, in-house softw.)
- DANS (Data Archiving and Networked Services) (Netherlands, in-house software)
- Metis Radboud University (Netherlands, in-house software (Metis))
- Pure-Elsevier (Netherlands, Pure)
- VIRTa (Finland, in-house software)
- WUT Base of Knowledge (Warsaw University of Technology) (Poland, OMEGA-PSIR)



euroCRIS member meeting | Helsinki / FI | 27-29 MAY 2019

MAY 28, 2020

# Solutions for constructing an Open Knowledge Base for the Netherlands (OKB-NL)

This blog post follows on from the earlier blog post on [What is an Open Knowledge Base anyway?](#) It is written by Maurice Vandenfeesten (VU, Amsterdam)

## DELIVERY FORMAT FOR INDEX PROVIDERS (SCOPUS, WOS, DIMENSIONS, ETC)

- Standard: The FULL record; incl (when applicable) keywords, abstracts, reference lists, etc. in JSON
- Contains: Articles, Grants, Patents, Clinical Guidelines, etc
- Scope: entities with Dutch contributorship

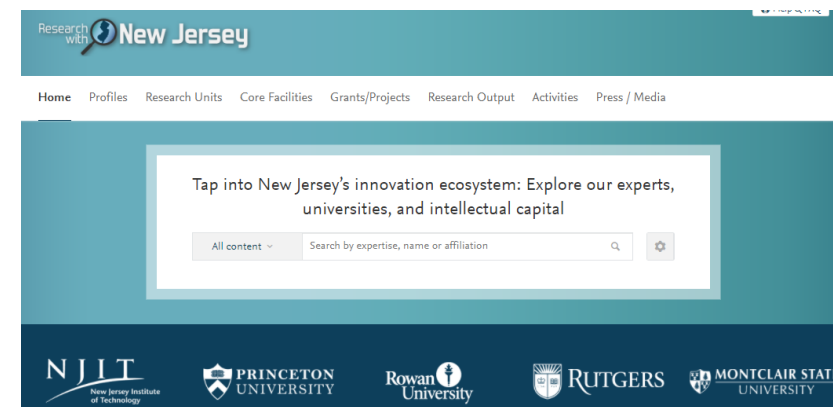
## DELIVERY FORMAT FOR ALTMETRICS PROVIDERS (ALTMETRIC, PLUMX, ETC)

- Mentions of all types (News, Policy Docs, Trials, social media, etc) in JSON
- Scope: All mentions mentioning Dutch research output (publications/datasets/etc)

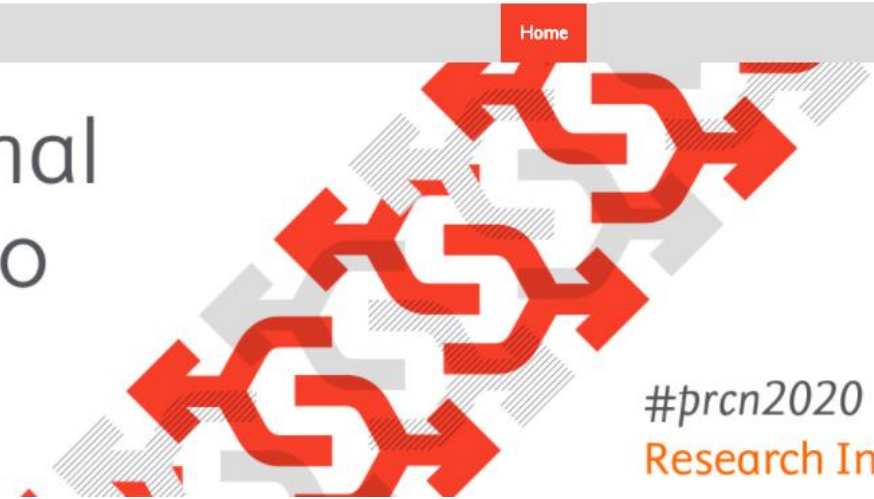
## DELIVERY FORMAT FOR UNIVERSITIES (CRIS) AND FUNDERS:

- Standard: [CERIF-XML](#) [OpenAIRE-GL](#)
- Contains: information about Organisational Units, Researchers, Projects, Publications, Datasets, Awarded Grants, etc.

All information entities need to be delivered as individual files, in a zipped package. That package must be logically aggregated and deposited, eg. by year, month, etc. Provenance metadata of the source providing the data and an open licence needs to be added. Also deposit with descriptive metadata, including pointers of the Open Standard of the datafiles, to adhere the FAIR principles. <https://www.go-fair.org/fair-principles/>



<https://openworking.wordpress.com/2020/05/28/solutions-for-constructing-an-open-knowledge-base-for-the-netherlands-okb-nl/>



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# Thanks! Questions?

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<http://orcid.org/0000-0001-6300-1033>